

EMERGENCY VEHICLE PREEMPTION PROGRAMMING DETAIL

(program controller as shown below)

SELECT 7-PREEMPT DATA FROM MAIN MENU

- PREEMPT 3 -

PREEMPTS

1-PREEMPT 1 5-PREEMPT 5 9-PREEMPT 9
2-PREEMPT 2 6-PREEMPT 6 A-PREEMPT 10
3-PREEMPT 3 7-PREEMPT 7 B-PREEMPT 11
4-PREEMPT 4 8-PREEMPT 8 C-PREEMPT 12

O-OVERRIDES D-DEFAULT DATA

PREEMPT 3

1-MISCELLANEOUS 4-PEDEST. STATUS
2-INTERVAL TIMES 5-OVERLAP STATUS
3-VEHICLE STATUS

PREEMPT 3 MISC DATA TEST: 0

DET: 250 DELAY: 0 MXCAL:120 DB/10: 0
NLOCK: 0 EXTND: 0 L OUT: 0 SRMOD: 0
LINK#: 0 DURAT: 0 GATE : 0 R2C : 0
PHASE....1.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6
EXIT 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
CALLS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

select F - return to Preempt 3 menu
select 2 - Interval Times

PREEMPT 3 INTERVAL TIMES

MIN GRN: 1 MIN WLK: 1 DWL GRN: 7
EXT PED: 0
--SELECT--- ---TRACK--- ---RETURN--
GREEN : 0
PED CLR: 30 PED CLR: 0 PED CLR: 0
YEL/10 : 0 YEL/10 : 0 YEL/10 : 0
RED/10 : 0 RED/10 : 0 RED/10 : 0

select F - return to Preempt 3 menu
select 3 - Vehicle Status

PREEMPT 3 VEHICLE STATUS

PHASE....1.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6
TRK GRN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
DWELL 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
(O-RED.1-GRN.2-FLR.3-FLY.4-DARK.5-FLG)
CYCLE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
(O-NO..1-ACT..2-MIN REC..3-MX REC)

select F - return to Preempt Data menu

NOTE: Options 4 & 5 are not used.
Be sure values are set at default=0.

- PREEMPT 4 -

PREEMPTS

1-PREEMPT 1 5-PREEMPT 5 9-PREEMPT 9
2-PREEMPT 2 6-PREEMPT 6 A-PREEMPT 10
3-PREEMPT 3 7-PREEMPT 7 B-PREEMPT 11
4-PREEMPT 4 8-PREEMPT 8 C-PREEMPT 12

O-OVERRIDES D-DEFAULT DATA

PREEMPT 4

1-MISCELLANEOUS 4-PEDEST. STATUS
2-INTERVAL TIMES 5-OVERLAP STATUS
3-VEHICLE STATUS

PREEMPT 4 MISC DATA TEST: 0

DET: 251 DELAY: 0 MXCAL:120 DB/10: 0
NLOCK: 0 EXTND: 0 L OUT: 0 SRMOD: 0
LINK#: 0 DURAT: 0 GATE : 0 R2C : 0
PHASE....1.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6
EXIT 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CALLS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

select F - return to Preempt 4 menu
select 2 - Interval Times

PREEMPT 4 INTERVAL TIMES

MIN GRN: 1 MIN WLK: 1 DWL GRN: 10
EXT PED: 0
--SELECT--- ---TRACK--- ---RETURN--
GREEN : 0
PED CLR: 0 PED CLR: 0 PED CLR: 0
YEL/10 : 0 YEL/10 : 0 YEL/10 : 0
RED/10 : 0 RED/10 : 0 RED/10 : 0

select F - return to Preempt 4 menu
select 3 - Vehicle Status

PREEMPT 4 VEHICLE STATUS

PHASE....1.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6
TRK GRN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
DWELL 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
(O-RED.1-GRN.2-FLR.3-FLY.4-DARK.5-FLG)
CYCLE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
(O-NO..1-ACT..2-MIN REC..3-MX REC)

select F - return to Preempt Data menu

NOTE: Options 4 & 5 are not used.
Be sure values are set at default=0.

- PREEMPT 5 -

PREEMPTS

1-PREEMPT 1 5-PREEMPT 5 9-PREEMPT 9
2-PREEMPT 2 6-PREEMPT 6 A-PREEMPT 10
3-PREEMPT 3 7-PREEMPT 7 B-PREEMPT 11
4-PREEMPT 4 8-PREEMPT 8 C-PREEMPT 12

O-OVERRIDES D-DEFAULT DATA

PREEMPT 5

1-MISCELLANEOUS 4-PEDEST. STATUS
2-INTERVAL TIMES 5-OVERLAP STATUS
3-VEHICLE STATUS

PREEMPT 5 MISC DATA TEST: 0

DET: 252 DELAY: 0 MXCAL:120 DB/10: 0
NLOCK: 0 EXTND: 0 L OUT: 0 SRMOD: 0
LINK#: 0 DURAT: 0 GATE : 0 R2C : 0
PHASE....1.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6
EXIT 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
CALLS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

select F - return to Preempt 5 menu
select 2 - Interval Times

PREEMPT 5 INTERVAL TIMES

MIN GRN: 1 MIN WLK: 1 DWL GRN: 10
EXT PED: 0
--SELECT--- ---TRACK--- ---RETURN--
GREEN : 0
PED CLR: 12 PED CLR: 0 PED CLR: 0
YEL/10 : 0 YEL/10 : 0 YEL/10 : 0
RED/10 : 0 RED/10 : 0 RED/10 : 0

select F - return to Preempt 5 menu
select 3 - Vehicle Status

PREEMPT 5 VEHICLE STATUS

PHASE....1.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6
TRK GRN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
DWELL 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
(O-RED.1-GRN.2-FLR.3-FLY.4-DARK.5-FLG)
CYCLE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
(O-NO..1-ACT..2-MIN REC..3-MX REC)

select F - return to Preempt 5 menu
select 5 - Overlap Status

PREEMPT 5 OVERLAP STATUS

PHASE....A.B.C.D.E.F.G.H.I.J.K.L.M.N.O.P
TRK GRN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
DWELL 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CYCLE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
(O-R.1-G.2-FR.3-FY.4-DK.5-FG IO-NO.1-ACT)
TRAIL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

NOTE: Option 4 is not used. Be sure
values are set at default=0.

end of programming

PROGRAM EXTEND TIME ON OPTICAL DETECTOR UNITS FOR 2.0 SEC.

REMOTE FLASH PROGRAMMING DETAIL

(program controller as shown below)

FROM MAIN MENU PRESS 4 (UNIT DATA)

UNIT DATA

1- STARTUP & MISC 6- SEQUENCES
2- FLASH 7- PORT 1/ITS DATA
3- OVERLAP DATA 8- I/O MISC
4- PEER-TO-PEER 9- PUTPUT MAPPING
5- RING STRUCTURE B-BANK SELECTION
C-COPY BANK
'+' DENOTES BANKABLE UNIT DATA [1]

FLASH

1- REMOTE FLASH SETTINGS
2- REMOTE FLASH ENTRY/EXIT PHASES
3- CABINET FLASH SETTINGS

REMOTE FLASH SETTINGS TEST-A FLASH: 0

LDSW:123456789 0123456789 0123456789 012
FLSH:110010010 0001000000 0000000000 000
ALT:010010000 0000000000 0000000000 000
O-DARK 1-RED 2-YELLOW 3-STEADY YELLOW

SELECT 'F' RETURN TO FLASH MENU

FLASH

1- REMOTE FLASH SETTINGS
2- REMOTE FLASH ENTRY/EXIT PHASES
3- CABINET FLASH SETTINGS

REMOTE FLASH ENTRY/EXIT PHASES

PHASES: 12345678 90123456
ENTRY: 01000100 00000000
EXIT: 01000100 00000000

REMOTE FLASH PROGRAMMING COMPLETE

ALL RED FLASH STARTUP PROGRAMMING DETAIL

(program controller as shown below)

FROM MAIN MENU PRESS 4 (UNIT DATA)

UNIT DATA

1- STARTUP & MISC 6- SEQUENCES
2- FLASH 7- PORT 1/ITS DATA
3- OVERLAP DATA 8- I/O MISC
4- PEER-TO-PEER 9- PUTPUT MAPPING
5- RING STRUCTURE B-BANK SELECTION
C-COPY BANK
'+' DENOTES BANKABLE UNIT DATA [1]

STARTUP & MISC

STARTUP TIME.: 6 (SEC) STATE: 2 (O-FL
RED REV/10....: 40 (TSEC) 1-RED
AUTO PED CLR.: 0 (O-NO 1-YES) 2-RAF)
STOP T RESET.: 0 (O-NO 1-YES)
SEQUENCE.....: 0 (O-18)
SPECIAL SEO : 0 (SEE HELP)

STARTUP PROGRAMMING COMPLETE

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 12-0945T3
DESIGNED: October 2023
SEALED: 09/06/2024
REVISED: N/A

Signal Upgrade-
Electrical Detail - Sheet 3 of 3
(Construction Phase 2)

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING
DETAILS FOR:

Prepared for:
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
Signal Management Section
750 N. Greenfield Pkwy, Garner, NC 27529

NC 127 SE
at
SR 2231 (2nd Ave SE)
Division 12 Catawba County Hickory
PLAN DATE: January 2024 REVIEWED BY: N.K. Vianich
PREPARED BY: E.E. Tiller REVIEWED BY: N.R. Simmons
REVISIONS INIT. DATE
SIGNATURE DATE
SIGNED BY: Natasha R. Simmons 9/6/2024
SIG. INVENTORY NO. 12-0945T3

SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
031464
NATASHA R. SIMMONS

HNTB

HNTB NORTH CAROLINA, P.C.
4000 Center at North Hills St
Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997